CURRICULUM VITAE

Name: Hassan Hosseini-Monfared

Academic status: Professor of Inorganic Chemistry
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Address: Department of Chemistry, Faculty of Science, Universityof Zanjan, 45371-38791
Zanjan, I. R. Iran

Educational Background

1967 **Born in Zanjan, Iran**

1986– 1991 **BSc.,Pure Chemistry**
Department of Chemistry, Shiraz University, Shiraz, Iran.

1991 – 1993 **MSc., Inorganic Chemistry**
Prof. Hossein Aghabozorg's Research group. Department of Chemistry, TeacherTrainingUniversity,Tehran, Iran
Preparation and characterisation of $[Cu(MAP)]_2$, $[Ni(MAP)_2]_2$ and $MCl_3(THF)_3$ HMAP=2-(methylamino)pyridine, M=Y, La, Ce, Sm

1994–1998 **Ph.D., Inorganic Chemistry**
Prof. Daryoush Mohajer's Research group. Department of Chemistry, Shiraz University, Shiraz, Iran
Olefin epoxidation with hydrogen peroxide catalyzed by a water soluble Mn-porphyrins and none-heme systems

1998 – 2006 **Assistant Professor, at ZNU**

2006 – 2011 **Associate Professor, at ZNU**

Since 2011- **Full Professorfor Inorganic Chemistry at ZNU**

Jan. 2005 -Sep. 2005 **Sabbatical Leave**

Prof. Christoph Janiak's research group. Institut fuer Anorganische und Analytische Chemie Universitaet Freiburg, Albertstr. 21, D-79104 Freiburg, Germany

August 2011 -January2012 **Sabbatical Leave**

Prof. Christoph Janiak's research group.
Institut für Anorganische Chemie und Strukturchemie, Universität Düsseldorf, Universitätsstr. 1, D-40225 Düsseldorf, Germany

Awards

- **Distinguished Researcher, Faculty of Science, University of Zanjan 2009**
- **Distinguished Researcher, University of Zanjan 2010**
- **Distinguished Researcher,the Province of Zanjan2010**
- **Deutsche Forschungsgemeinschaft Research fellowshipJuly2011- January 2012**
- **Distinguished Researcher, University of Zanjan 2014**

Courses taught

1. Inorganic Chemistry I (BSc Course)
2. Inorganic Chemistry II (BSc Course)
3. Organometallic Chemistry (BSc Course)
4. Chemical Applications of Group Theory (BSc Course)

5. Advanced Inorganic Chemistry (MSc Course)
6. Spectroscopic Methods in Inorganic Chemistry(MSc Course)
7. Physical Inorganic Chemistry(MSc Course)
8. Special Topics in Inorganic Chemistry (MSc Course)

9. Inorganic polymers (PhD Course)
10. Structure and Bonding in Inorganic Compounds (PhD Course)
11. Organometallic Chemistry (PhD Course)
12. Special Topics in Inorganic Chemistry (PhD Course)

Positions Held& Academic Experience

- Chairman, Chemistry Department, ZNU, (2000-2002)
- Deputy Dean, Faculty of Science(Research Affairs), ZNU, (2002-2004)
- General Secretary of Seventh Iranian Seminar of Inorganic Chemistry, ZNU, (Feb. 26-27, 2003)

- پژوهشگر برتر دانشکده علوم دانشگاه زنجان ۱۳۸۸
- پژوهشگر برتر دانشگاه زنجان - نویسنده پراستنادترین مقاله ۱۳۸۹
- پژوهشگر برتر استان زنجان ۱۳۸۹
- بورس تحقیقاتی DFG آلمان ۱۳۹۰
- پژوهشگر برتر دانشگاه زنجان ۱۳۹۳

زمینه‌های پژوهشی مورد علاقه:

Green Chemistry and Catalysis

ترکیب های نانو ساختار، نانو کاتالیست، ترکیب های کوئوردیناسیونی، پلیمرهای کوئوردیناسیونی

- سنتز و کاربرد کاتالیست های نانوساختار فلزات واسطه برای اکسایش کاتالیستی هیدروکربن ها
- سنتز و کاربرد ترکیب های کو ئوردینانسی فلزات واسطه با قابلیت های کاربرد به عنوان کاتالیست
- سنتز مدل های هیم و غیر هیم آنزیم های سیتو کروم P-450
- سنتز ترکیب های سوپرا مولکولی
- سنتز و کاربرد کاتالیستی پلیمر های کوئوردیناسیونی
- سنتز و کاربرد کاتالیستی ترکیب های نانوساختار و نانوکامپوزیت برای تصفیه آلاینده های آب

Research Interests

Inorganic chemistry, Nanomaterials synthesis and applications in catalysis, Organic synthesis, Hydrocarbon oxidation, Asymmetric oxidation, Green Chemistry, Catalysis, Heterogeneous catalysis, Transition metals, Nanocatalysts, Environmental Chemistry

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Publications

96. Seyed Hadi Nouri, **Hassan Hosseini-Monfared**
Highly efficient and green oxidation of alkanes and alkylaromatics with hydrogen peroxide catalyzed by silver and vanadyl on mesoporouros silica coated magnetite
Appl. Organomet. Chem. 2016, Accepted for Publication

95. Majid Hosseini, Hassan Hosseini-Monfared, Vahideh Abbasi
Silver ferrite–graphene nanocomposite and its good photocatalytic performance in air and visible light for organic dye removal
Appl. Organomet. Chem. In Press

94. Fahime Bigdeli, Sedigheh Abedi, **Hassan Hosseini-Monfared**, Ali Morsali
An investigation of the catalytic activity in a series of isoreticular Zn(II)-based metal-organic frameworks
Inorg. Chem. Commun. 72 (2016) 122-127.
DOI: 10.1016/j.inoche.2016.08.010
http://www.sciencedirect.com/science/article/pii/S1387700316302660

92. R. Bikas, R. Karimian, M. Siczek, S. Demeshko, **H. Hosseini-Monfared**, T. Lis
Magnetic and spectroscopic properties of a 2D Mn(II) coordination polymer with carbohydrazone ligand
Inorg. Chem. Commun. 70 (2016) 219-222.

91. Vahideh Abbasi, Hassan Hosseini-Monfared, Seyed Majid Hosseini
Mn^{III}-salan/graphene oxide/magnetite nanocomposite as a highly selective catalyst for aerobic epoxidation of olefins
Appl. Organomet. Chem. 2016, Accepted for Publication

90. S. M. Hosseini, H. Hosseini-Monfared, V. Abbasi, M. Reza Khoshroo
Selective oxidation of hydrocarbons under air using recoverable silver ferrite–graphene ($AgFeO_2$–G) nanocomposite: A good catalyst for green chemistry
Inorg. Chem. Commun. 67 (2016) 72–79.

89 F. Hosseini, S. Sadighian, **H. Hosseini-Monfared**, N. M. Mahmoodi
Dye removal and kinetics of adsorption by magnetic chitosan nanoparticles
Desalin. Water Treat. (2016) 1-9

DOI: 10.1080/19443994.2016.1143879
http://dx.doi.org/10.1080/19443994.2016.1143879

88. Afsaneh Farokhi, **Hassan Hosseini-Monfared**
A recyclable Mn-porphyrin catalyst for enantioselective epoxidation of unfunctionalized olefins using molecular dioxygen
New J. Chem. 40 (2016) 5032-5043.
DOI: 10.1039/c6nj00808a
http://pubs.rsc.org/en/content/articlelanding/2016/nj/c6nj00808a#!divAbstract

87. R. Bikas, N. Noshiranzadeh, L. Sieron, H. Hosseini-Monfared, J. M. Barandiaran, T. Lis, J. Alonso
Syntheses, crystal structures and magnetic studies of new manganese(II) coordination polymers with ditopic N-pyridinylisonicotinohydrazide ligand and dicyanamide
Inorg. Chem. Commun. 67 (2016) 85-89.
doi:10.1016/j.inoche.2016.03.009
http://dx.doi.org/10.1016/j.inoche.2016.03.009

86. Leila Hadian-Dehkordi, **Hassan Hosseini-Monfared**
Enantioselective aerobic oxidation of olefins by magnetite nanoparticles at room temperature: a chiral carboxylic acid strategy
Green Chem. 18 (2) (2016) 497-507
DOI: 10.1039/C5GC01774B
http://pubs.rsc.org/en/content/articlelanding/2016/gc/c5gc01774b#!divAbstract
IF = 8.5

2015

85. R. Bikas, **H. Hosseini-Monfared**, M. Siczek, S. Demeshko, B. Soltani, T. Lis
Synthesis, structure and magnetic properties of a tetranuclear Mn(II) complex with carbohydrazone based ligand
*Inorg. Chem. Commun.*62 (2015) 60-63.
doi:10.1016/j.inoche.2015.10.021
http://www.sciencedirect.com/science/article/pii/S138770031530109X

84. M. A. Kamyabi, F. Soleymani-Bonoti, R. Bikas, **H. Hosseini-Monfared**, N. Arshadi, M. Siczek, T. Lis
Molecular Oxygen Reduction Catalyzed by a Highly Oxidative Resistant Complex of Cobalt-Hydrazone at Liquid/Liquid Interface
Phys. Chem. Chem. Phys. 17 (2015) 32161-32172
DOI: 10.1039/C5CP04695E
IF 4.493

83. Z. Hosseinabadi-Farahani, N. M. Mahmoodi, **H. Hosseini-Monfared**
Preparation of Surface Functionalized Graphene Oxide Nanosheet and Its Multicomponent Dye Removal Ability from Wastewater
Fibers Polym. 16 (2015) 1035-1047.
*DOI:*10.1007/s12221-015-1035-4

82. E. Ahadi, **H. Hosseini-Monfared**, P. Mayer
Dichlorobis(methylisonicotinate)copper(II)
Acta Crystallogr. Sect. E: Struct. Rep. Online, 71 (2015) m112-m113.
http://dx.doi.org/10.1107/S205698901500729X

81. **H. Hosseini-Monfared**,S. Soleymani-Babadi, S. Sadighian,A. Pazio, K. Wozniak, M. Siczek, P. Mayer

Syntheses, structures and catalytic activities of dinuclear copper complexes with tetradentate diaminebis(phenolate)
Transition Met. Chem. 40 (2015) 255-267.
DOI 10.1007/s11243-015-9913-6
http://link.springer.com/article/10.1007/s11243-015-9913-6

80. B. Zahed,**H. Hosseini-Monfared**
A comparative study of silver-graphene oxide nanocomposites as a recyclable catalyst for the aerobic oxidation of benzyl alcohol: support effect
Appl. Surf. Sci. 328 (2015) 536-547.
doi:10.1016/j.apsusc.2014.12.078
http://www.sciencedirect.com/science/article/pii/S0169433214027779?np=y

79. R. Bikas, **H. Hosseini-Monfared**, P.O. Aleshkevych, R. Szymczak, M. Siczek, T. Lis
Single crystal EPR spectroscopy, magnetic studies and catalytic activity of a self-assembled [2 × 2] Cu^{II}_4 cluster obtained from a carbohydrazone based ligand
Polyhedron 88 (2015) 48–56
doi:10.1016/j.poly.2014.11.038
http://dx.doi.org/10.1016/j.poly.2014.11.038
http://www.sciencedirect.com/science/article/pii/S027753871400761X

78. A. Morsali, **H. Hosseini-Monfared**, A. Morsali, P. Mayer
Sonochemical synthesis and characterization of new one-dimensional manganese(II) coordination polymer nanostructures
Ultrason. Sonochem. 24 (2015) 140-145.
doi:10.1016/j.ultsonch.2014.11.011
http://www.sciencedirect.com/science/article/pii/S1350417714003459

77. R. Bikas, P. Aleshkevych, **H. Hosseini-Monfared**, J. Sanchiz, R. Szymczak, T. Lis
Synthesis, structure, magnetic properties and EPR spectroscopy of a copper(II) coordination polymer with a ditopic hydrazone ligand and acetate bridges
*Dalton Trans.*44 (2015) 1782-1789.
DOI:10.1039/C4DT03060E
http://pubs.rsc.org/en/content/articlelanding/2015/dt/c4dt03060e#!divAbstract
IF = 4.097

76. **H. Hosseini-Monfared**,F. Parchegani, S. Alavi
Carboxylic acid effects on the size and catalytic activity of magnetite nanoparticles
J. Colloid Interface Sci., 437 (2015) 1–9.
Journal of Colloid and Interface Science
DOI: 10.1016/j.jcis.2014.08.056
http://www.sciencedirect.com/science/article/pii/S0021979714006134
IF = 3.55

2014

75. S. Alavi, **H. Hosseini-Monfared**, P. Aleshkevych
A highly efficient, enantioselective and recyclable mesoporous silica-based Mn(II) catalyst for asymmetric oxidation of thioanisol
RSC Adv. 4 (2014) 48827-48835.
DOI: 10.1039/c4ra07256a
http://pubs.rsc.org/en/Content/ArticleLanding/2014/RA/C4RA07256A#!divAbstract

74. Z. Hosseinabadi-Farahani, **H. Hosseini-Monfared**, N. M. Mahmoodi
Graphene oxide nanosheet: preparation and dye removal from binary system colored wastewater
Desalin. Water Treat. (2014) 1-13.
DOI: 10.1080/19443994.2014.960462
http://www.tandfonline.com/doi/abs/10.1080/19443994.2014.960462#preview

73. **H. Hosseini-Monfared**, F. Mojtabazadeh, R. Bikas, V. Eigner, M. Dusek, A. Gutiérrez
Cyanuric chloride reagent as a chloride ions donor: synthesis, crystal structure and magnetic properties of $[Cu_2(2\text{-APM})_2(\mu\text{-Cl})_2(\mu\text{-OCH}_3)_2]_n$ coordination polymer
J. Coord. Chem. 67(2014)3510-3518.
DOI: 10.1080/00958972.2014.969250
http://www.tandfonline.com/doi/abs/10.1080/00958972.2014.969250#preview

72. R. Bikas,**H. Hosseini-Monfared**, J. Sanchiz, M. Siczek, T. Lis
Synthesis, crystal structure and magnetic properties of a trinuclear phenolate bridged manganese complex containing Mn(II)-Mn(III) ions
RSC Advances, 4 (2014) 36175-36182.
DOI: 10.1039/C4RA05964F (Paper)
http://pubs.rsc.org/en/content/articlelanding/2014/ra/c4ra05964f#!divAbstract

71. S. Sadighian, **H. Hosseini-Monfared**, K. Rostamizadeh, M. Hamidi
pH-Triggered Magnetic-Chitosan Nanogels (MCNs) For Doxorubicin Delivery: Physically vs. Chemically Cross Linking Approach
Adv Pharm Bull, 5(1), 2015, 115-120.
doi: 10.5681/apb.2015.016
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4352213/

70. R. Bikas, **H. Hosseini-Monfared**, V. Vasylyeva, J. Sanchiz, J. Alonso, J. M. Barandiaran, C. Janiak
Heteronuclear, mixed-metal Ag(I)–Mn(II) coordination polymers with bridging *N*-pyridinylisonicotinohydrazideligands: synthesis, crystal structures, magnetic and photoluminescent properties
Dalton Trans. 43 (2014) 11925-11935.
DOI: 10.1039/C4DT01390E.
http://pubs.rsc.org/en/content/articlelanding/2014/dt/c4dt01390e#!divAbstract

69. A. Morsali, **H. Hossieni-Monfared**, A. Morsali, C. Janiak
Ultrasonic irradiation assisted syntheses of one-dimensional di(azido)-dipyridylamine Cu(II) coordination polymer nanoparticles
Ultrason. Sonochem. 23 (2015) 208-211.
http://dx.doi.org/10.1016/j.ultsonch.2014.06.005
http://www.sciencedirect.com/science/article/pii/S1350417714001916

68. R.Bikas, **H.Hosseini-Monfared**,M. Korabik, M. S. Krawczyk, T. Lis
Synthesis, structure and magnetic properties of a 1D coordination polymer of Cu(II) containing phenoxido and dicyanamido bridging groups
Polyhedron 81(2014) 282-289.
DOI: 10.1016/j.poly.2014.06.024
http://www.sciencedirect.com/science/article/pii/S0277538714004240

67. **H. Hosseini-Monfared**, S. Alavi, P. Mayer
A novel homodinuclear manganese(III) complex with *N*, *N*′-bis(salicylidene)diethylenetriamine: synthesis, structure and catalytic activity
Inorg. Chim. Acta 419 (2014) 89-95.
http://dx.doi.org/10.1016/j.ica.2014.05.005

66. S. Sadighian, K. Rostamizadeh, **H. Hosseini-Monfared**, M. Hamidi
Doxorubicin-conjugated Core–Shell Magnetite Nanoparticles as Dual-Targeting Carriers for Anticancer Drug Delivery
Colloids Surf., B, 117 (2014) 406-413.
http://dx.doi.org/10.1016/j.colsurfb.2014.03.001

65. **H. Hosseini-Monfared,** R. Bikas, P. Mahboubi Anarjan, A. J. Blake, V. Lippolis, N. B. Arslan, C. Kazak
Oxidovanadium(V) complexes containing hydrazone based *O*,*N*,*O*-donor ligands: Synthesis, structure, catalytic properties and theoretical calculations
Polyhedron 69 (2014) 90-102.
http://dx.doi.org/10.1016/j.poly.2013.11.020

64. **H.Hosseini-Monfared**, R.Bikas, S. Mohammadi, T. M. Percino, S. Demeshko, F. Meyer, M. A. L. Ramírez
Synthesis, structure, magnetic properties and catalase-like activity of methoxy bridged Mn(III) coordination polymer containing hydrazone based $(O,N,O)_2$-donor ligand
Z. Anorg. Allg. Chem. 640 (2014) 405-411.
DOI: 10.1002/zaac.201300385

63. **H. Hosseini-Monfared**,R. Bikas, P. Mahboubi-Anarjan, S. Weng Ng, E. R. T. Tiekink
The first neutral dinuclear vanadium complex comprising VO and VO_2 cores: synthesis, structure, electrochemical properties and catalytic activity

Z. Anorg. Allg. Chem. 640 (2014) 243–248.
DOI: 10.1002/zaac.201300245

62. **H. Hosseini-Monfared**, M. Ghorbanloo, C. Janiak, P. Mayer
Intramolecular diastereoselective cascade cyclization reaction of *N*,*N*´-bis(salicylidene)cyclohexenediimine with phosphoryltrichloride to a bis(chlorophosphorylated) decahydro-2,4-di(2-hydroxyphenyl)benzo[d][1,3,6]oxadiazepine
Phosphorus, Sulfur Silicon Relat. Elem. 189 (2014) 226-234.
DOI: 10.1080/10426507.2013.818994

61. R. Bikas, **H. Hosseini-Monfared**, M. Siczek, A. Gutiérrez, M. S. Krawczyk, T. Lis
Syntheses, Crystal Structures and Magnetic Studies of New 2D Coordination Polymers Containing Dinuclear Manganese(II) Repetitive Units Using a Ditopic Isonicotinhydrazone Based *N*,*N*,*O*-donor Ligand
Polyhedron 67 (2014) 396-404.
http://dx.doi.org/10.1016/j.poly.2013.09.025

2013

60. R. Bikas, **H. Hosseini-Monfared**, L. Sieron, A. Gutiérrez
Synthesis, crystal structure, spectroscopic study and magnetic behavior of the first dinuclear Mn(II) complex of hydrazone based ligand containing dicyanamide bridging groups
J. Coord. Chem. 66 (2013) 4023-4031.
DOI: 10.1080/00958972.2013.858811

59. **H.Hosseini-Monfared**,R.Bikas, M. Siczek, T. Lis, R. Szymczak, P. Aleshkevych
Synthesis, structure and magnetic characterization of the first azido bridged heterotetranuclear chromium-sodium complex
*Inorg. Chem. Commun.*35 (2013) 172-175.
http://dx.doi.org/10.1016/j.inoche.2013.06.009

58. **H. Hosseini-Monfared**, R. Bikas, J. Sanchiz, T. Lis, M. Siczek, J. Tucek, R. Zboril, P. Mayer
Syntheses, structures and magnetic properties of azido- and phenoxo-bridged complexes of manganese containing tridentate aroylhydrazone based ligands
*Polyhedron*61 (2013) 45-55
http://dx.doi.org/10.1016/j.poly.2013.05.033

57. **H. Hosseini-Monfared**, R. Bikas, R. Szymczak, P. Aleshkevych, A. M. Owczarzak, M. Kubicki

Syntheses, crystal structures and magnetic studies of new copper(II) complexes of (*E*)-N'-(phenyl(pyridin-2-yl)methylene)isonicotinohydrazide containing azide and thiocyanateanions
Polyhedron 63 (2013) 74-82.
http://dx.doi.org/10.1016/j.poly.2013.06.055

56. **H. Hosseini-Monfared**, S. Alavi, M. Siczek
Synthesis, structure and catalytic activity of a non-symmetric *N*-(salicylidene)diethylenetriamine complex of copper(II)
Chin. J. Catal. 34 (2013) 1456-1461.
DOI: 10.1016/S1872-2067(12)60616-0

55. **H. Hosseini-Monfared**, N. Asghari-Lalami, A. Pazio, K. Wozniak, C. Janiak
Dinuclear vanadium, copper, manganese and titanium complexes containing O,O,N-dichelating ligands: synthesis, crystal structure and catalytic activity
Inorg. Chim. Acta 406 (2013) 241-250.
http://dx.doi.org/10.1016/j.ica.2013.04.044

54. S. Alavi, **H. Hosseini-Monfared**, M. Siczek
A new manganese(III) complex anchored onto SBA-15 as efficient catalyst for selective oxidation of cycloalkanes and cyclohexene with hydrogen peroxide
J. Mol. Catal. A: Chem. 377 (2013) 16-28.
http://dx.doi.org/10.1016/j.molcata.2013.04.013

53. **H. Hosseini-Monfared**, H. Meyer, C. Janiak
Dioxygen oxidation of 1-phenylethanol with gold nanoparticles and *N*-hydroxyphthalimide in ionic liquid
J. Mol. Catal. A: Chem. 372 (2013) 72-78.
DOI: 10.1016/j.molcata.2013.02.007

52. **H. Hosseini-Monfared**, A. Farrokhi, S. Alavi, P. Mayer
Synthesis, structure and catalytic activity of an oxo-bridged dinuclear oxovanadium complex of an isonicotinohydrazide ligand
Transition Met. Chem. 38 (2013) 267-273.

51. **H. Hosseini-Monfared**, E. Pousaneh, S. Sadighian, S. Weng Ng, E. R. T. Tiekink
Syntheses, structures and catalytic activity of copper(II)-aroylhydrazone complexes
Z. Anorg. Allg. Chem. 639 (2013) 435-442.

50. R. Bikas, **H. Hosseini-Monfared**, E. Jeanneau, B. Shaabani
Synthesis, Structural Characterization, and Electrochemical Studies of New Oxovanadium(V) Complexes Derived from 2-Furanoylhydrazone Derivatives
Journal of Chemistry Volume 2013, Article ID 546287, 12 pages

49. **H. Hosseini-Monfared**, H. Falakian, R. Bikas, P. Mayer

Intramolecular hydrogen bond effect on keto-enolization of aroylhydrazone in copper(II) complexes
Inorg. Chim. Acta 394 (2013) 526-534.

48. R. Bikas, **H. Hosseini-Monfared**, G. Zoppellaro, R. Herchel, J. Tucek, A. M. Owczarzak, M. Kubicki, R. Zboril
Synthesis, Structure, Magnetic Properties and Theoretical Calculations of Methoxy Bridged Dinuclear Iron(III) Complex Containing Hydrazone Based *O*,*N*,*N*-Donor Ligand
Dalton Trans. 42(8) (2013) 2803 – 2812.

2012

47. P. Mahboubi Anarjan, **H. Hosseini-Monfared**, N. B. Arslan, C. Kazak, R. Bikas
(*E*)-4-Hydroxy-N_-(2-hydroxy-5-iodobenzylidene) benzohydrazide methanol monosolvate
Acta Crystallogr. Sect. E: Struct., Struct. Rep. Online, E68 (2012) o2698
doi: 10.1107/S1600536812034848

46. **H. Hassan-Monfared**, C. Näther, H. Winkler, C. Janiak
Highly selective and "green" alcohol oxidations in water using aqueous 10% H_2O_2 and iron-benzenetricarboxylate metal-organic gel
Inorg. Chim. Acta 391 (2012) 75-82.

45. R. Karimian, **H. Hosseini-Monfared**, R. Bikas, N. Burcu Arslan, C. Kazak, A. Koroglu
(*E*,*E*)-*N*′-{4-[(2-Benzoylhydrazin-1-ylidene)methyl]benzylidene}benzohydrazide
Acta Crystallogr. Sect. E: Struct., Struct. Rep. Online,E68(2012) o1433.
doi: 10.1107/S1600536812014687

44. R. Bikas, **H. Hosseini-Monfared**, T. Lis, M. Siczek
(*E*)-4-{2-[(2-Hydroxynaphthalen-1-yl)-methylidene]hydrazinecarbonyl}-pyridinium nitrate
Acta Crystallogr. Sect. E: Struct., Struct. Rep. Online, E68(2012) o367–o368.
doi: 10.1107/S160053681200061X

43. **H.Hosseini-Monfared**, V. Abbasi, A. Rezaei, M. Ghorbanloo, A. Aghaei
A heterogenised vanadiumoxo-aroylhydrazone catalyst for efficient and selective oxidation of hydrocarbons with hydrogen peroxide
Transition Met. Chem. 37(2012) 85-92.

42. R. Bikas, **H. Hosseini-Monfared**, T. Lis, M. Siczek
Synthesis, structural characterization and electrochemical studies of an ionic cobalt complex derived from a tridentate hydrazone Schiff base and azide ligands

*Inorg. Chem. Commun.*15 (2012) 151-155.

In 2010 IF = 1.974

2011

41. S. Masoudian, **H. Hosseini-Monfared**
Selective oxidation of aromatic hydrocarbons by potassium and phosphorous modified iron oxide-silica nanocomposite
Transition Met. Chem. 37 (2011) 37-43.
In 2010 IF = 1.166

40. N. Asghari Lalami, **H. Hosseini-Monfared**, H. Noei, P. Mayer
Binuclear vanadium(V) complexes of bis(aryl)adipohydrazone: Synthesis, spectroscopic studies, crystal structure and catalytic activity
*Transition Met. Chem.*36 (2011) 669-677.

39. M.H. Rasoulifard, **H. Hosseini-Monfared**, S. Masoudian
Photo-assisted hetero-Fenton decolorization of azo dye from contaminated water by Fe–Si mixed oxide nanocomposite
*Environ. Technol.*32 (2011) 1627-1635.

38. M.A. Kamyabi, O. Narimani, **H. Hosseini-Monfared**
Electroless deposition of bis(4-(4-pyridyl)-2,2:6,2-terpyridine)iron(II) thiocyanate complex onto carbon nanotubes modified glassy carbon electrode : application to simultaneous determination of ascorbic acid , dopamine and uric acid
J. Braz. Chem. Soc. 3 (2011) 468-477.

37. M. Ghorbanloo, **H.Hosseini-Monfared**, C. Janiak
The catalytic function of a silica gel-immobilized Mn(II)-hydrazide complex for alkene epoxidation with H_2O_2
*J. Mol. Catal. A:Chem.*345 (2011) 12-20.
DOI: 10.1016/j.molcata.2011.05.014
In 2010 IF = 2.872

36. S. Masoudian, **H.Hosseini-Monfared**, A. Aghaei
Silica aerogel-iron oxide nanocomposites: recoverable catalysts for the oxidation of alcohols with hydrogen peroxide
Transition Met. Chem. 36 (2011) 521-530.

35. **H.Hosseini-Monfared**, S. Alavi, A. Farrokhi, M. Vahedpour, P. Mayer
A novel 2D vanadium(V)-isonicotinohydrazide coordination polymer, $C_{15}H_{16}AgN_4O_8V$; Synthesis, structure, catalytic activity and DFT calculation
Polyhedron 30 (2011) 1842–1848.
In 2010 IF = 2.033

34. G.H. Shahverdizadeh, S. Masoudian, A.A. Soudi, F. Bigdeli,**H. Hosseini-Monfared**, A. Morsali, H.R. Khavasi
Direct Synthesis of Cd_3OSO_4 Nano-particles From a New Three-dimensional Cadmium(II) Coordination Polymer Precursor
J. Inorg. Organomet. Polym. 21 (2011) 171–174.

33. **H.Hosseini-Monfared**, S. Kheirabadi, N. Asghari Lalami, P. Mayer
Dioxo- and oxovanadium(V) complexes of biomimetic hydrazone ONO and NNS donor ligands: Synthesis, crystal structure and catalytic reactivity
*Polyhedron*30 (2011) 1375-1384.
In 2010 IF = 2.033

32. **H. Hosseini-Monfared**, M. Vahedpour, M. Mahdavi Yeganeh, M. Ghorbanloo, P. Mayer, C. Janiak
Concentration dependent tautomerism in green $[Cu(HL^1)(L^2)]$ and brown $[Cu(L^1)(HL^2)]$ with H_2L^1 = (*E*)-*N*′-(2-hydroxy-3-methoxybenzylidene)benzoylhydrazone and HL^2 = pyridine-4-carboxylic (isonicotinic) acid
*Dalton Trans.*40 (2011) 1286-1294.
In 2010 IF = 3.647

2010

31. M.A. Kamyabi, Z. Asgari, **H. Hosseini-Monfared**
Electrocatalytic oxidation of nitrite at a terpyridine manganese(II) complex modified carbon past electrode
J. SolidState Electrochem. 14 (2010) 1547-1553.

30. **H.Hosseini-Monfared**, S. Alavi, R. Bikas, M. Vahedpour, P. Mayer
Vanadiumoxo-aroylhydrazone complexes: Synthesis, structure and DFT calculations
Polyhedron, 29 (2010) 3355-3362.
doi:10.1016/j.poly.2010.09.029 |

29. M. Ghassemzadeh, S. Bahemmat, M. Mahmoodabadi, B. Rezaii-Rad, **H. Hosseini-Monfared**, E. Mottefakeri, B. Neumüller
New Mono- and Binuclear Pd(II) Complexes Containing 1,2,4-Triazole Moieties
Polyhedron, 29 (2010) 3036-3045.
DOI: 10.1016/j.poly.2010.08.012
In 2010 IF = 2.033

28. R. Bikas, **H.Hosseini-Monfared**, S. Alami, I. Pantenburg, G. Meyer
A Vanadyl(V) Complex with the Pincer-type Thiobis(phenolate) and Acetylacetonate as Co-ligands, VO(tbp)(acac)

*Z. Naturforsch.*65b (2010) 1457-1461.

27. R. Bikas, **H.Hosseini-Monfared**, C. Kazak, N. B. Arslan, K. Bijanzad
(*E*)-*N*′-(2-Hydroxybenzylidene)furan-2-carbohydrazide
Acta Crystallogr. Sect. E: Struct. Rep. Online,E66 (2010) o2015.

26. R. Bikas, **H.Hosseini-Monfared**, K. Bijanzad, A. Korogluc, C. Kazakc
(2Z,N'E)-N'-((2-hydroxynaphthalen-1-yl)methylene)furan-2-carbohydrazonic acid
Acta Crystallogr. Sect. E: Struct., Struct. Rep. Online, E66(2010) o2073.

25. **H.Hosseini-Monfared**, A.-C. Chamayou, S. Khajeh, C. Janiak
Can a small amount of crystal solvent be overlooked or have no structural effect? Isomorphous non-stoichiometric solvates (*pseudo*-polymorphs): The case of salicylaldehyde thiosemicarbazone
CrystEngComm,12 (2010) 3526-3530.
In 2010 IF = 4.00

24. M.A. Kamyabi, O. Narimani, **H. Hosseini-Monfared**
Electrocatalytic oxidation of hydrazine using glassy carbon electrode modified with carbon nanotube and terpyridine manganese(II) complex
*J. Electroanal. Chem.*644 (2010) 67–73.

23. **H.Hosseini-Monfared**, R. Bikas, P. Mayer
Homogeneous green catalysts for olefin oxidation by mono oxovanadium(V) complexes of hydrazone Schiff base ligands
Inorg. Chim. Acta,363 (2010) 2574-2583.
doi:10.1016/j.ica.2010.04.046
http://www.sciencedirect.com/science/article/pii/S0020169310003087

This article is among the Top-5 cited in this journal in the last five year
Extracted from **Scopus** (on *Sun Jan13 2015*)
5th most cited article in Inorg. Chim. Acta. (Jan 12, 2015)

22. **H. Hosseini-Monfared**, R. Bikas, P. Mayer
(*E*)-3-Hydroxy-N´-(2-hydroxybenzylidene)-2-naphthohydrazide
Acta Crystallogr. Sect. E: Struct.,Struct. Rep. Online, E66 (2010) o236–o237.

21. **H. Hosseini-Monfared**, V. Aghapoor, M. Ghorbanloo, P. Mayer
Highly selective olefin epoxidation with the bicarbonate activation of hydrogen peroxide in the presence of manganese(III) *meso*-tetraphenylporphyrin complex: Optimization of effective parameters using the Taguchi method
Appl. Catal. A372 (2010) 209-216.
In 2010 IF = 3.383

2009

20. A. Morsali, **H. Hossieni Monfared**, A. Morsali
Synthesis and characterization of Mn_3O_4 nanoparticles via thermal decomposition of a new synthesized hydrogen bonded polymer
J. Mol. Struct. 938 (2009) 10–14.

19. **H.Hosseini-Monfared**, A. Mohajeri, A. Morsali, C. Janiak
Olefin epoxidation with H_2O_2 in the presence of Mn^{II}-dicarboxylate coordination polymer catalysts
*Monatsh. Chem.*140 (2009) 1437-1445.

18. M.A. Kamyabi, Z. Asgari, **H. Hosseini-Monfared**, A. Morsali
Electrocatalytic oxidation of ascorbic acid and simultaneous determination of ascorbic acid and dopamine at a bis(40-(4-pyridyl)-2,20:60,200-terpyridine)iron(II)thiocyanate carbon past modified electrode
J. Electroanal. Chem. 632 (2009) 170–176.

17. **H.Hosseini-Monfared**, J. Sanchiz, Z. Kalantari, C. Janiak
Structure and magnetic properties of a tetranuclear Cu_4O_4 open-cubane in $[Cu(L)]_4{\cdot}4H2O$ with
L^{2-} = (*E*)-*N'*-(2-hydroxy-3-methoxybenzylidene)benzohydrazide
Inorg. Chim. Acta 362 (2009) 3791-3795.

16. A. Morsali, **H. Hossieni Monfared**, A. Morsali
Syntheses and Characterization of Nano-scale of the Mn^{II} Complex With 4'-(4-Pyridyl)-2,2':6',2''-terpyridine (pyterpy: The Influence of the Nano-structure Upon Catalytic Properties
Inorg. Chim. Acta 362 (2009) 3427-3432.
doi: 10.1016/j.ica.2009.03.040

15. **H.Hosseini-Monfared**, S. Sadighian, M.-A. Kamyabi, P. Mayer
Iron(III) aroylhydrazone complexes: Structure, electrochemical studies and catalytic activity in oxidation of olefins
J. Mol. Catal. A:Chem. 304 (2009) 139-146.
DOI: 10.1016/j.molcata.2009.02.004

14. **H.Hosseini-Monfared**, M. Nazari,P. Mayer, M.-A. Kamyabi, A. Erxleben, Z. Asgari
Synthesis, crystal structure and electrochemical studies of hydrazone Schiff base complex of titanium(IV)
Z. Naturforsch. 64b (2009) 409-414.

13. A. Morsali, **H.Hosseini-Monfared**, A. Ramazani, N. Noshiranzadeh, A. Morsali,M. Zeller

Syntheses and Characterization of new Mn^{II} and Fe^{II} complexes with ligand 4'-(4-pyridyl)-2,2':6',2''-terpyridine (pyterpy); $[Mn(pyterpy)(MeOH)_2(OAc)](ClO_4)$ and $[Fe(pyterpy)_2](SCN)_2 \cdot MeOH$
J. Coord. Chem. 62 (2009) 2631-2640.

2008

12. M.-A. Kamyabi, S. Shahabi, **H. Hosseini-Monfared**
Spectrophotometric and Potentiometric Study of (*E*)-*N*'-(2-hydroxy-3-methoxybenzylidene)benzohydrazide with Ferric ion in Methanol-Water Mixture
J. Chem. Eng. Data 53 (2008)2341–2345.

11. M.-A. Kamyabi, S. Shahabi, **H. Hosseini-Monfared**
Electrocatalytic Oxidation of Hydrazine at a Cobalt(II) Schiff Base Modified Carbon Paste Electrode
J. Electrochem. Soc. 155(1) (2008) F8-F12.

2007

10. **H. Hosseini-Monfared**, Z. Kalantari, M.-A. Kamyabi, C. Janiak
Synthesis, structural characterization and electrochemical studies of a nicotinamide bridged dinuclear copper complex derived from a hydrazone Schiff base tridentate ligand.
Z. Anorg. Allg. Chem. 633 (2007) 1945-1948.

9. **H. Hosseini-Monfared**, O. Pouralimardan,C. Janiak,
Synthesis and spectral characterization of hydrazone Schiff bases derived from 2,4-dinitrophenylhydrazine. Crystal structure of salicylaldehyde-2,4-dinitrophenylhydrazone
Z. Naturforsch. 62b (2007)717 – 720.

8. O. Pouralimardan, A. –C. Chamayou, C. Janiak, **H. Hosseini-Monfared**
Hydrazone Schiff base-manganese(II) complexes: synthesis, crystal structure and catalytic reactivity
Inorg. Chim. Acta 360 (2007) 1599-1608.
In 2010 IF = 1.899
This article is among the Top-10 cited in this journal in the last five year
Extracted from **Scopus** (on *Sun Sep 26 21:27:37 BST 2010*)

7. **H. Hosseini, Monfared**, S. Dini, N. Safari, M. Pirouzmand
Substituent effects on catalytic activity of transition metal phthalocyanine complexes
Indian J. Chem., Sect. A 45A (2006) 1643-1645.

6. **H. Hosseini-Monfared**, Z. Amouei
Hydrogen peroxide Oxidation of Aromatic Hydrocarbons by Immobilized Iron(III)
J. Mol. Catal. A:Chem. 217 (2004) 161-164.
DOI: 10.1016/j.molcata.2004.03.020

5. **H. Hosseini-Monfared**, M. Ghadimi
Environmentally Friendly Catalysis Using Supported Reagents: Catalytic Epoxidation with Hydrogen Peroxide Mediated by Iron Ions immobilized on γ-Alumina
J. Chem. Res. (2003) 313-314.

4. **H.Hosseini-Monfared**, M. Ghorbani
Hydrogen Peroxide Oxidation of Hydrocarbons Catalyzed by a Silica Supported Iron Precursor
Monatsh. Chem. 132 (2001) 989-992.

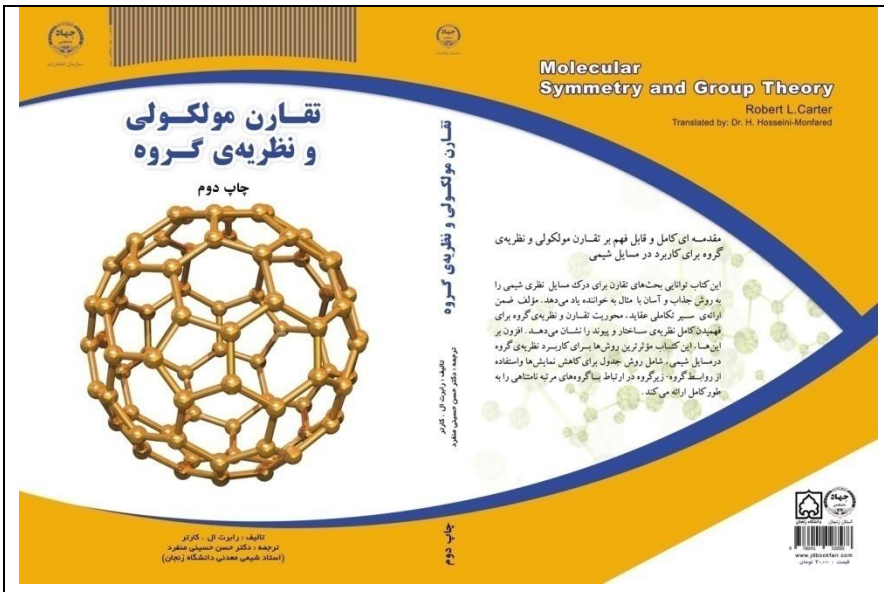
3. D. Mohajer,**H.Hosseini-Monfared**
Catalytic Alkene Epoxidation with Hydrogen Peroxide in the Presence of 5,10,15,20-Tetrakis(2,6-dichloro-3-sulfonatophenyl)porphyrinatomanganese(III) Acetate and Imidazol
J. Chem. Res. (1998) 772-773.

2. H. Aghabozorg,**H.Hosseini-Monfared**
Preparation and Characterization of 2-(methylamino)pyridine complex of Cu(I)
Iran. J. Chem. & Chem. Eng. 14 (1995) 6-9.

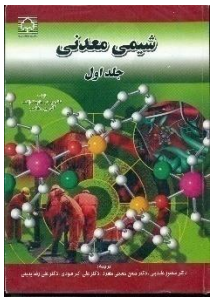
1. H.Aghabozorg, **H.Hosseini-Monfared**
Preparation and Characterization of $[Ni(MAP)_2]_2$, HMAP = 2-(methylamino)pyridine
J. Sci. I.R.Iran 6 (1995) 153-154.

Books

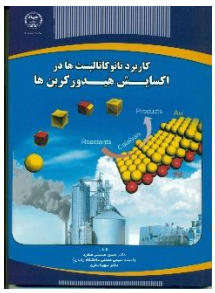
Molecular Symmetry and Group Theory, (translated), Jahad ZNU Press, 2004.



Inorganic Chemistry, (translated) ZNU Press, 2008.



H. Hosseini-Monfared, S. Alavi, *Applications of Nanocatalysts for the oxidation of Hydrocarbons*, Jahad Daneshgahi, Zanjan, 1393



Research projects

اکسایش کاتالیزوری هیدروکربن ها با هیدروژن پرکسید
۳۷۸۸-پ، ۱۳۷۹/۱۰/۱۲

اکسایش الکل ها با هیدروژن پرکسید
۳۳۹۶-پ، ۱۳۸۲/۸/۱۸

نانوکاتالیست های نامتقارن آهن و منگنز برای اکسایش کاتالیستی هیدروکربن ها با هوا، ۱۳۹۳
Asymmetric iron and manganese nanocatalysts for aerobic catalytic hydrocarbon oxidation
صندوق حمایت از پژوهشگران کشور

Supervised Thesis

PhD student	**10**
MSc student	**60**